

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060362

Luminaire Tested: S124RDRP-S1195D935-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-S1195D935-X4F0-XX-UDD-WVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

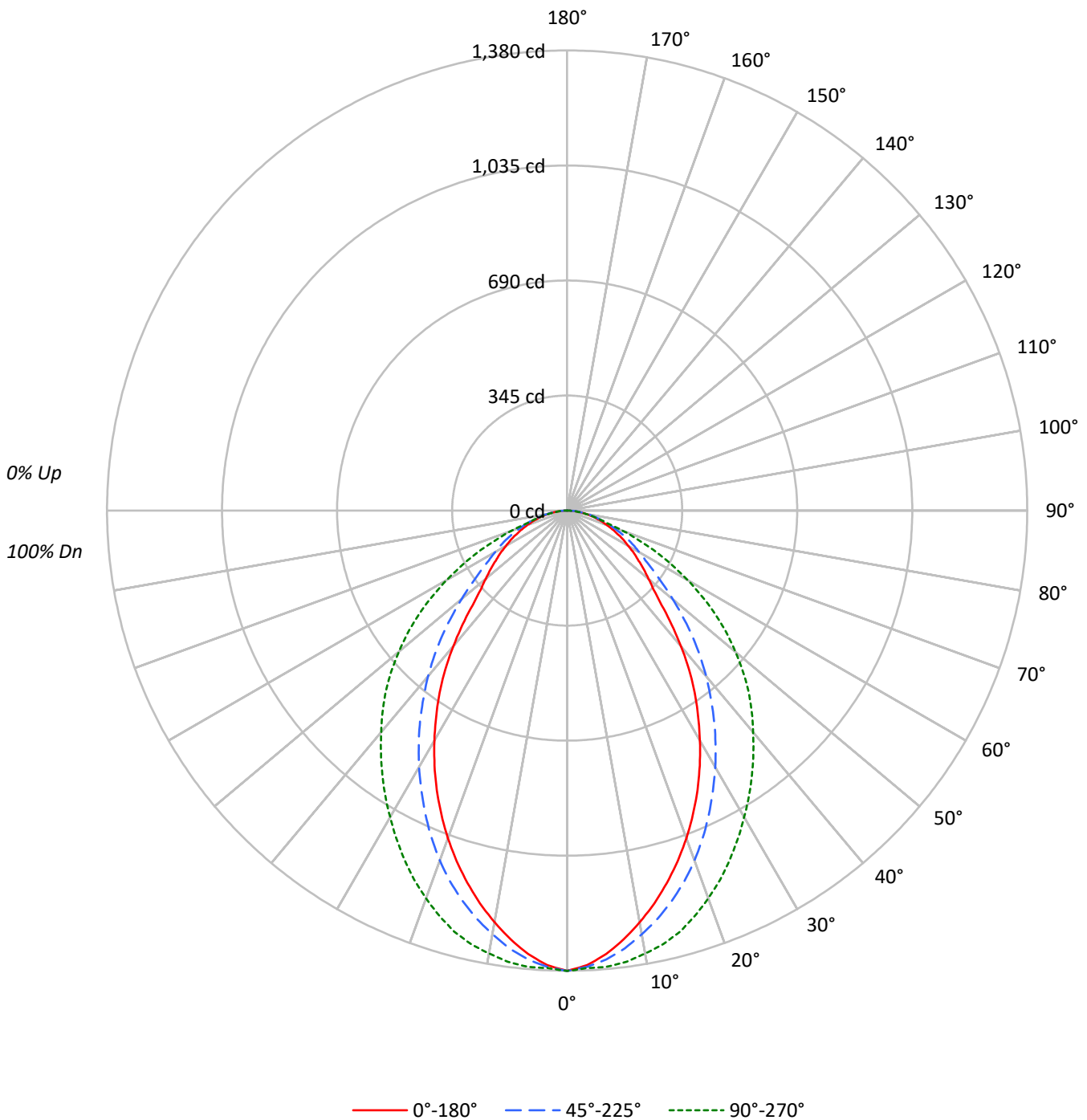
Lumens per Lamp: N/A
Luminaire Lumens: 2533.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75					75			
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65					65			
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57					57			
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50					50			
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45					45			
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40					40			
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37					37			
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33					33			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31					31			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11888	11888	11888
5°	11542	11679	11869
10°	10960	11281	11793
15°	10303	10804	11654
20°	9583	10232	11340
25°	8787	9553	10969
30°	7920	8831	10556
35°	7012	8078	10158
40°	5960	7292	9750
45°	4880	6442	9372
50°	4271	5531	8822
55°	3924	4768	8161
60°	3639	4292	7195
65°	3411	4032	6023
70°	3200	3691	4522
75°	3008	3374	3294
80°	2787	3089	2787
85°	2539	3013	2411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9372 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	5.0
10°-20°	343.3	13.6
20°-30°	469.2	18.5
30°-40°	493.1	19.5
40°-50°	427.9	16.9
50°-60°	322.8	12.7
60°-70°	209.2	8.3
70°-80°	107.4	4.2
80°-90°	32.5	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	940.0	37.1
0°-40°	1433.2	56.6
0°-60°	2183.9	86.2
0°-90°	2533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1335	1354	1351	1362	1373	125
15°	1156	1184	1212	1267	1307	324
25°	925	958	1005	1082	1154	424
35°	667	704	768	871	966	415
45°	401	439	529	661	770	315
55°	261	269	318	451	544	235
65°	167	171	198	239	296	167
75°	90	101	101	103	99	96
85°	26	32	30	29	24	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1380.5	1380.5	1380.5	1380.5	1380.5
2.5°	1364.6	1381.7	1369.5	1371.9	1373.1
5°	1335.3	1353.6	1351.1	1362.1	1373.1
7.5°	1297.4	1319.4	1324.3	1346.2	1364.6
10°	1253.4	1277.8	1290.1	1325.5	1348.7
12.5°	1207.0	1231.4	1253.4	1298.6	1331.6
15°	1155.7	1183.8	1211.9	1266.8	1307.2
17.5°	1101.9	1131.2	1166.7	1226.5	1274.2
20°	1045.7	1075.0	1116.6	1181.3	1237.5
22.5°	985.9	1018.8	1062.8	1132.5	1198.4
25°	924.8	957.8	1005.4	1082.4	1154.5
27.5°	861.3	895.5	946.8	1032.3	1109.2
30°	796.5	833.2	888.1	978.5	1061.6
32.5°	730.5	769.6	828.3	924.8	1015.2
35°	667.0	703.7	768.4	871.0	966.3
37.5°	601.0	637.7	707.3	818.5	917.5
40°	530.2	570.5	648.7	763.5	867.4
42.5°	464.2	504.5	588.8	711.0	819.7
45°	400.7	438.6	529.0	660.9	769.6
47.5°	351.8	378.7	469.1	612.0	715.9
50°	318.8	331.1	412.9	558.3	658.5
52.5°	289.5	299.3	361.6	504.5	602.3
55°	261.4	268.8	317.6	450.8	543.6
57.5°	237.0	240.7	278.5	397.0	480.1
60°	211.3	216.2	249.2	342.1	417.8
62.5°	190.6	193.0	223.6	289.5	355.5
65°	167.4	171.0	197.9	239.4	295.6
67.5°	146.6	152.7	171.0	195.5	233.3
70°	127.1	135.6	146.6	158.8	179.6
72.5°	108.7	118.5	124.6	129.5	125.8
75°	90.4	101.4	101.4	102.6	99.0
77.5°	73.3	83.1	81.8	80.6	75.7
80°	56.2	64.7	62.3	61.1	56.2
82.5°	41.5	47.6	45.2	44.0	37.9
85°	25.7	31.8	30.5	29.3	24.4
87.5°	12.2	18.3	17.1	15.9	11.0
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.10	16.59	15.47	16.90	17.22	18.84	20.33	19.21	20.64	20.96
	3H	16.77	18.10	17.15	18.43	18.79	19.97	21.30	20.35	21.63	21.99
	4H	17.44	18.69	17.84	19.04	19.42	20.26	21.51	20.66	21.86	22.24
	6H	17.95	19.10	18.36	19.47	19.86	20.46	21.62	20.88	21.98	22.38
	8H	18.12	19.22	18.55	19.61	20.01	20.52	21.62	20.94	22.01	22.41
	12H	18.24	19.29	18.67	19.67	20.10	20.55	21.60	20.98	21.98	22.41
4H	2H	15.90	17.15	16.30	17.49	17.87	19.01	20.26	19.41	20.60	20.98
	3H	17.77	18.80	18.18	19.20	19.61	20.34	21.37	20.75	21.77	22.18
	4H	18.57	19.50	19.01	19.92	20.36	20.75	21.69	21.19	22.10	22.54
	6H	19.22	20.02	19.67	20.47	20.93	21.08	21.89	21.53	22.33	22.79
	8H	19.44	20.19	19.90	20.64	21.11	21.17	21.93	21.63	22.37	22.84
	12H	19.60	20.28	20.09	20.76	21.23	21.24	21.92	21.72	22.40	22.87
8H	4H	18.92	19.68	19.38	20.12	20.59	20.89	21.64	21.35	22.09	22.56
	6H	19.71	20.33	20.21	20.83	21.30	21.31	21.93	21.80	22.42	22.90
	8H	20.03	20.59	20.54	21.10	21.59	21.46	22.02	21.98	22.54	23.02
	12H	20.29	20.79	20.80	21.28	21.85	21.60	22.10	22.11	22.59	23.16
12H	4H	18.95	19.63	19.43	20.10	20.58	20.89	21.57	21.37	22.05	22.52
	6H	19.77	20.33	20.29	20.84	21.33	21.33	21.89	21.84	22.40	22.89
	8H	20.16	20.65	20.67	21.14	21.71	21.54	22.03	22.05	22.53	23.09